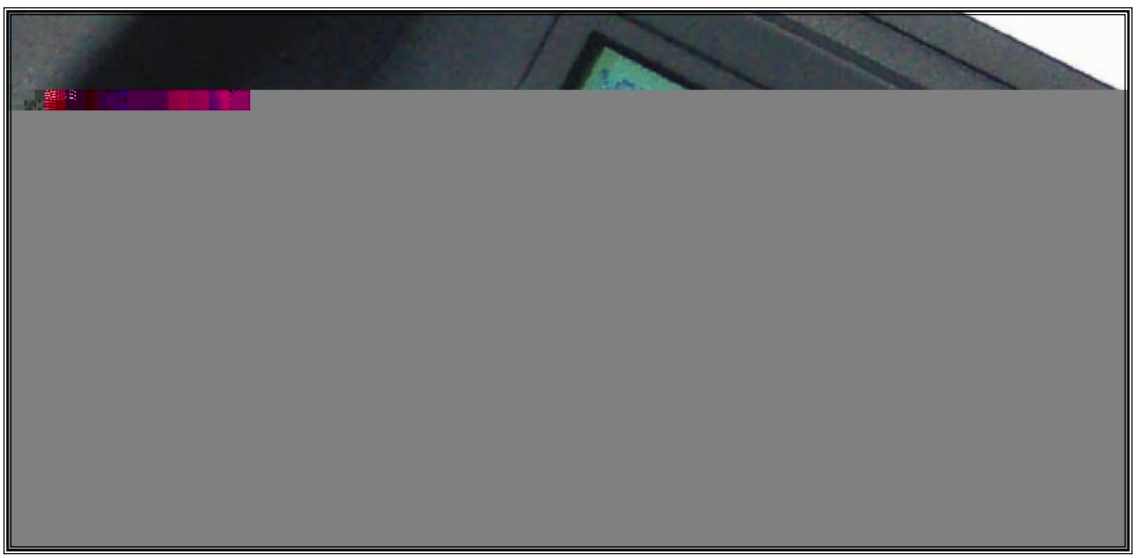
User Manual

snom 200
Version v2.02



snom
The SIP Experts

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Foreword

Congratulations on the purchase of your snom 200 Voice over IP telephone!

Telephony is part of our everyday life. Over a period of more than 100 years a form of communication has evolved that is impossible to ignore. In spite of the new technology base of the snom 200, most of its look and feel will be very familiar to you and you should be able to use it intuitively.

The world of the Internet, on the other hand, has opened up a whole range of new possibilities. Many users work with web browsers and own one or more email accounts. These users will find it easy to manage the phone via its web interface or to make a call to, for example, "sip: john@domain.de".

We are confident that developments in the computer industry will follow those in the telecom world.

VoIP is not only about transporting speech over data networks. It is about interoperability and breaking up a vertical market, as well as streamlining business processes by seamlessly integrating the telephone into computer networks and applications. With its technical flexibility, snom's commitment to all open and relevant standards and our cooperation with other vendors in the VoIP industry, the snom 200 represents a safe investment for the future.

We would like to take this opportunity to wish you a great time in the VoIP world.

snom technology AG

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Installation

1

Delivery Content

Please check whether the delivery contains the following parts:

- The base unit with display and keypad
- The handset
- The handset cable
- The power supply (optional)

Safety Notes

Please observe the following safety advice. It is crucial for the safe and reliable operation of the device.

Power supply

You have two options for providing the snom 200 with power:

- An external power supply (48 V)
- Power feeding over the network cable. Depending on the model, the following is supported: snom200A (Ethernet sockets at the bottom): PowerDsine product family 4000 and 6000 as well as RedHawk product family 8400; snom200B (Ethernet sockets at the rear): supports 802.3af; PowerDsine product family 6000 as well as RedHawk product family 8500.

If you want to use an external power supply, use the one that is included in the package. Other power supplies may cause damage to the phone, affect the behavior or induce noise.

Setting up the Phone

The snom 200 should only be placed on even, horizontal surfaces that enable the rubber pads to ensure a secure grip. Do not place the snom 200 on carpets or other materials that contain fibers that could block the air vents and cause overheating.

Cleaning

To clean the snom 200 use an anti-static cloth. Please avoid cleaning liquids as they might damage the surface or internal electronics of the phone.

Connecting the phone

First connect one end of the handset cable to the handset and then to the jack on the left-hand side of the phone.

Next plug the Ethernet (network) cable into the RJ45 connector, which is named "NET" or "S0" and is the nearest to the middle of the phone, and plug the other end into the network side to establish a data link. The second RJ45 connector at the edge of the phone named „PC" or „UP0" is for daisy chaining further Ethernet devices without the need for a second Ethernet connection line.

If you are using an external power supply, insert the plug of the power supply into the connector next to the data line and hook up the casing into the mains.

If you want to use a headset, it can be connected to the audio jacks on the rear side of the snom 200. The connector named „in" is for the microphone.

Keypad

The numeric keypad with the keys 0 to 9, * and # is used to enter digits and letters. Depending on the operating mode, different actions can be performed (see the table below):

- Entry of digits only (e.g. when dialing a phone number),
- Type in letters and digits by pressing the keys repeatedly (similar to a cellular phone).

The F key is used to invoke the menu. To cancel actions or input, the CANCEL key ESC can be used. The OK key confirms actions, selections and inputs.

Depending on the operating mode, the keys can have context-specific meanings and are described in this user manual.

Softkeys F1 to F3 are context sensitive function keys. Their current mapping is depicted in the bottom line on the display through texts.

The keys of the numeric block in different operating modes are shown below:

Key	Digits	Lower case	Upper case
0	0	(SPC)_0	(SPC)_0
1	1	.@1,?!-/(): ;&%*#+<=>$[]	.@1,?!-/(): ;&%*#+<=>$[]
2	2	abc2	ABC2
3	3	def3	DEF3
4	4	ghi4	GHI4
5	5	jkl5	JKL5
6	6	mno6	MNO6
7	7	pqrs7$	PQRS7$
8	8	tuv8	TUV8
9	9	wxyz9	WXYZ9
#	#	Guess number	Guess number
*	*	Toggles upper and lower case	

Initialization

Booting

If your network administrator or Internet service provider installed your phone, the phone will connect automatically to the network. After it has booted, it will enter the idle state. When this state has been reached, the time and date are displayed in the first line of the display.

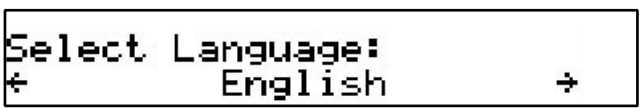
If the phone does not reach this operation mode and also fails to reach the logon mode (see below), you should consult your network administrator or Internet service provider or refer to the "Administrator Manual".

Selecting the language

The language is set to English by default. In order to change it to a different language, press the F key.

Go to the submenu "General Settings" with the ◄ or ► keys.

Press softkey "Lang" to select this menu entry



and set it to your choice. Press OK to activate your selection.

1

Logon

Mobility

In business office environments, desktops are sometimes shared by different employees at the same time or at different points in time (e.g. employees working different shifts etc). The phones that are located at the desktops need to be able to cater for this.

To ease the effort of assigning the appropriate phone number to the phone for each different employee, the snom200 offers the so-called mobility features, which are described in the next sub-chapters.

Logon wizard

If no number is assigned to the phone, you will be prompted to type in your account name. This consists of your phone number succeeded by @ and the address of your registrar (for SIP) or gatekeeper (H.323). The phone tries to guess the correct registrar/gatekeeper address, so it could look something like this:

After typing in your account name, confirm your account by pressing the OK key.

The phone tries to register your given account name at the given registrar/gatekeeper. The idle screen is shown and if no “NR” is displayed in the middle of the first line, your registration has been successful.

Registration menu

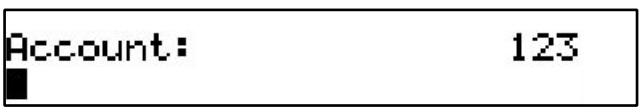
In idle screen, the “Reg” key is assigned to the registration submenu.

After pressing “Reg” you can choose the registration line you want to use. With “Next” you can move through the seven different registration lines.

Logon user

Suppose that you want to logon a user 777 by using the third registration line.

Press “Edit” to start editing the registration line information. First type in the phone number of the user.



After confirming with OK the registrar/gatekeeper address should be typed in.

After pressing OK the whole registration line is shown again.

Logoff user

Choose the registration line where you want to logoff the user and press "Edit".

Remove the current phone number with C. Confirm this and the following registrar/gatekeeper entry by pressing OK. Registrar/ gatekeeper entry can remain filled in for later use.

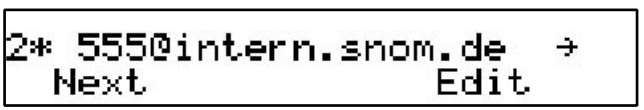
2

Select outgoing line

Select the registration line you want to use as your outgoing identity for the next call by pressing "Next".

And activate the chosen registration line by pressing "Activate".

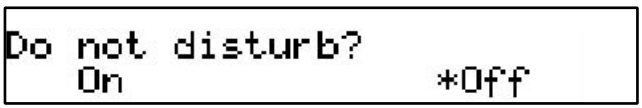
By choosing a different registration line, your originator phone number is changed to this line. This means that different people can start calls from the same phone with their own originator phone number and the called phone will display this current outgoing line information. The current outgoing line is marked at the registrations screen with a "*" directly in front of the registered SIP line.



DND mode on/off

Independent from Logon Wizard settings, the DND functionality is available in the snom menu. DND is short for "Do Not Disturb". If this mode is activated, it means that incoming calls will no longer come through to the phone and you will be completely undisturbed by the phone. If there is a mailbox set up for you, the calls are redirected to this. Before this mode is activated you will be asked if you really want to change to this mode.

In idle screen, "DND" is displayed in the middle of the first line of the screen if the mode is activated.



2

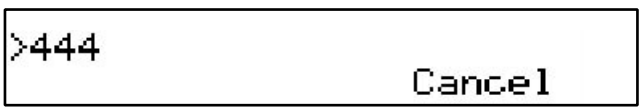
Basic Functions

Idle state

In idle state, the phone shows the date and time in the first line of the display and the second line shows the currently valid functions mapped onto the three softkeys.

Dialing

There are two methods with which to begin a call from the idle state of snom 200. You can either start dialing with the handset resting in the cradle and then pick it up, or you can pick up the handset and then dial the number. In the latter case you will have to press OK to indicate that the number is complete and dialing can commence.



The snom 200 shows the current communication status in the display.

Input Modes

Dependent on the context, various types of inputs are possible. The active input mode is sometimes indicated (by example during editing a phonebook entry) in the top right-hand corner of the display:

123	Only digits can be entered.
ABC	Upper case mode. By pressing *, lower case mode can be toggled.
abc	Lower case mode. Use * to activate upper case mode.

Key mapping for input:

◄	Moves the cursor to the left.
►	Moves the cursor to the right.
C<-	Deletes the character to the left of the cursor.
C/Clear	Clears the input.
123	Changes input mode to numbers.
URL	Changes input mode to capital letters.
url	Changes input mode to small letters.

As indicated in the table above, with “123”, “URL” or “url” the input mode can be changed. After using a specific input mode for dialing a number, the phone saves this mode as default for future use. If you want to use a different mode, begin dialing and if the mode is wrong, choose your preferred mode and continue dialing.

Dialing a phone number

A telephone number is dialed with the numeric keypad.

If block dial is on (this is the default) and the user has not done anything for a few seconds, the phone will remind the user to press the OK key in order to start the call.

TIP

E.164 numbers

E.164 is the standard that defines normal phone numbers. They may contain digits from 0-9, * and #. H.323 differentiates between these numbers and "H.323 addresses" that may contain alphanumeric characters. Several Gatekeeper implementations do not differentiate between E.164 numbers and H.323 addresses. If you encounter problems, try specifying the number as an H.323 address.

Key mapping:

◄	Moves the cursor to the left.
►	Moves the cursor to the right.
C<-	Deletes the character to the left of the cursor.
123	Changes input mode to numbers.
URL	Changes input mode to capital letters.
url	Changes input mode to small letters.
OK	Dials the number.
ESC	Aborts the dialing.

Dialing an H.323/SIP address

An H.323/SIP address can be entered via the alphanumeric block. You will find the "@" symbol by pressing the numeric key "1" several times.

Key mapping:

◄	Moves the cursor to the left.
►	Moves the cursor to the right.
C<-	Deletes the character to the left of the cursor.
123	Changes input mode to numbers.
URL	Changes input mode to capital letters.
url	Changes input mode to small letters.
OK	Dials the H.323/SIP address if entered correctly.
ESC	Aborts the dialing.

Dialing an IP address

The IP address can be entered via the numeric block. Please use the "*" key instead of the dot (".")!

Key mapping:

◄	Moves the cursor to the left.
►	Moves the cursor to the right.
C<-	Deletes the character to the left of the cursor.
123	Changes input mode to numbers.
URL	Changes input mode to capital letters.
url	Changes input mode to small letters.
OK	Dials the IP address if entered correctly.
ESC	Aborts the dialing of the IP address.

TIP

Dialing an IP Address

When calling an IP address, the called phone or computer cannot determine which user you want to reach. In SIP mode it is assumed that "anonymous" is being called, and with H.323 no assumptions are made. This works with many phones and applications. Therefore, you should only use this method in exceptional cases, as the entry of IP addresses is rather cumbersome.

Number guessing

For your convenience, this functionality offers you the first number from dialed numbers, missed calls, received calls or phonebook that matches the beginning of the number you have already typed in.

If the displayed number is not what you expected, you can get the next matching number by pressing the "#" key (in alphanumeric modes). Otherwise, continue typing your desired number or press the

◄ or C function key and the number guessing is temporarily switched off for this session of editing a phone number.

Terminating a call

You can end a call by setting the handset on its cradle, pressing the hook switch or pressing Cancel. The snom 200 will terminate the call and return to the idle state.

Incoming call

When your snom 200 is called, it rings and displays the following screen.

Accepting a call

Picking up the handset or pressing OK will accept the call. The snom 200 is now in a call.

Key mapping:

R	Hold / resume call.
Xfer	Transfer call.
	Handsfree mode on/off.
Mute/Unmute	Mutes / unmutes the microphone.
/	Changes the volume.
HeadRJ / Head /Hand	Switch to HeadsetRJ connector, Headset chinch connector or Handset.

See below for a further description.

Denying/blocking a Call

When the snom 200 signals an incoming call, you have the option to deny the call with "Deny".

If you decide to press "Deny All", the caller will be placed on the deny list and will always be denied automatically.

Adjusting the volume

While conducting a call, you can use the arrow keys to invoke the volume control.

Key mapping:

- Reduces the volume in single steps.
- Increases the volume in single steps.
- OK — Sets the volume and returns.
- ESC — Returns without setting the volume.

Mute / Unmute

Sometimes during a call the user may want to mute the microphone. This can be done by pressing the function key "Mute". Press "Unmute" to re-enable the microphone.

Handset / Handsfree / Headset

The snom200 supports calls being made while using the handset or the handsfree capability. During a call, it is possible to easily switch between both modes by pressing the function key .

If a headset is connected and the audio output is set to headset, the snom200 will treat the headset as the output device for calls. For using snom200 in a call- center environment, the connected headset will be the default case for dealing with the phone. The OK key is therefore used to accept incoming calls.

Key mapping:

Switch to handsfree/handset mode.

Accept incoming calls while headset mode is on.

Returns to the idle state.

Programmable Keys

The five programmable keys on snom200 have the following options:

- Line
- Destination
- Intercom
- Park Orbit
- Voice Recorder

Each of these buttons has an LED indicating the status of the respective programmable key at any given time.

Some features are common to all of these options:

a. Pressing any button when its LED is blinking and the phone is ringing will receive the call.

b. Pressing the button when a call is in progress at that key, indicated by the constantly on LED, will put the call on hold.

c. Pressing any button while editing a number for dialing at that key will erase the number and the phone will go to idle state.

Each of these different options will now be explained in detail.

Line

"Line" can be used in one of the following ways:

a. To map a local sip line: A user can assign the local lines to programmable keys by selecting this option and setting the url of the local line as argument to that key setting, e.g. if a phone has 2 registrations, 501@my.proxy.com and 502@my.proxy.com. The user has the option to map two programmable keys to each one of these lines by selecting ‚Line' and setting the respective sip url as argument. In this case, all the calls to a particular line will go to its matching programmable key, e.g. if 502@my.proxy.com is mapped at key P2, the LED on that key will start blinking if there is an incoming call on that line. Similarly, if the user presses P2 in the idle state, 502@my.proxy.com will become the active line for that call. This feature enables the customers to use their different sip accounts as they would use different PSTN phone lines. It is also possible to assign different ringtones for each sip line in order to make an acoustic differentiation. This can be done either at the proxy or at Settings/Sip/Lines page on the phone web interface.

b. To map a sip url for call pickup: Selecting this option with an sip url as argument will subscribe for dialog state changes of the phone with that registration. The LED on that key will show the status of the registration as idle, talking or ringing by varying frequencies of blinking. This allows the user to pick up a ringing call remotely just by the press of a button. An example of its usage can be mapping the office reception phone line at the phone of a company secretary. If for some reason a ringing phone is not answered at the reception, the secretary can see its ringing status by the blinking LED and pick up the call simply by pressing that programmable key. In this way, no calls go unanswered.

c. Free Key: "Line" is also the default setting for the programmable keys. If no argument is set, the keys are treated as free. Outgoing and incoming calls not bound to any other key go to the first such free key.

Destination

The user can map a sip url to a particular programmable key by setting this option and providing the url as argument. This option can be used in the following ways:

a. If the sip line 505@my.proxy.com is bound to key P3 with this option, all calls coming to the phone from this number will go to P3.

b. If, on the other hand, P3 is pressed during the idle state, 505@my.proxy.com will be dialed, as it is set as destination for this key.

c. In the ringing state, if the call comes from any line other than 505@my.proxy.com, pressing P3 will transfer the incoming call to 505@my.proxy.com.

Intercom

This option is similar to "Destination" with the exception that pressing the key bound to ‚Intercom' enables the intercom mode and the phone will be directly connected to the set snom phone if the other side has enabled the intercom mode. This feature is useful in an office environment as a quick access button to connect to the operator or secretary.

Park orbit

snom4s provides its customers with setup parking orbits at the media server, where calls can be parked and picked up. The option ‚Park Orbit' makes it possible for the phone to provide this feature. Suppose that key P4 is bound to orbit1@my.proxy.com. The LED on this key now displays the status of calls, if any, that are parked on this orbit. If the LED is blinking, this means that a call is parked there and the user can easily pick up that call by pressing P4. If, on the other hand, the user wants to park a call, pressing P4 during the call will park it at orbit1@my.proxy.com until the same are another user picks it up later. The other side will hear the holding music. This feature is useful for call center environments and all such places where there is a great inflow of calls and some kind of queuing is required to manage them.

Voice recorder

This option can be set up with a valid voice recording account. Supposing vr@my.proxy.com offers voice recording and is bound to key P5 on the phone. Its usage is explained in the following:

a. During a call, by pressing P5 the user is able to record the conversation he is having with the other party. Pressing button P5 again will end the recording process. The recorded media can later be listened to by accessing the recorder account vr@my.proxy.com.

b. This feature is also useful to record small messages or memos to self. By pressing P5 in the idle state a user can record an important message to be listened to later.

c. The same applies for recording the proceedings of a debate or discussion.

d. To keep audio minutes of a meeting.

e. To record an important conference call hosted at the phone.

DTMF

In H323 mode, this line type offers the ability to set up the programmable keys as additional function keys concerning PBX functionality controlled via DTMF key codes. On a key press to the programmable key setup as DTMF line type, the specified number sequence is dialed as DTMF key codes.

Menu

By pressing the F key in idle state, the menu is invoked. The following submenus are available: Call Forwarding, Forwarding options, Configuration, Volume Settings, General Settings, SW Update, Information.

Key mapping:

◄	Goes to the previous submenu.
►	Goes to the next submenu.
OK	Enters the submenu.
ESC	Returns to the previous screen state.

Adjusting the volume in idle mode

In the menu sub-item “Volume Settings”, the following window is displayed:

Here, the volume of the handset speaker, headset speaker or casing speaker can be adjusted. Select one of the three choices.

A tone is played back at the selected volume and you can decide on the desired setting.

Key mapping:

- Reduces the volume in single steps.
- Increases the volume in single steps.
- Sets the volume and returns.
- Returns without setting the volume.

Ring tones

In the menu sub-item „General Settings“, the following window is called up:

Select the submenu “RingTone”. Here, the ring tone can be set.

The selected ring tone is played back and you can decide on the desired setting.

Key mapping:

►	Moves the cursor to the next ring tone.
◄	Moves the cursor to the previous ring tone.
OK	Activates the selection and returns.
ESC	Returns without changing the ring tone.

Display Contrast

In the menu sub-item "General Settings", the following window is called up:

Select the submenu "Contrast". Here, the display contrast can be adjusted.

The selected contrast is displayed and you can decide on the desired setting.

Key mapping:

- ◄ Reduces the contrast in steps.
- ► Increases the contrast in steps.
- OK Sets the contrast and returns.
- ESC Returns without setting the contrast.

Information

In the menu item "Information", the following window is activated:

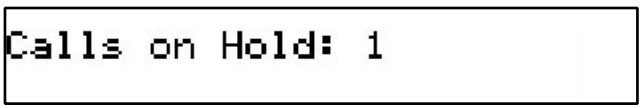
Here you can look up the software version, the currently assigned IP address and the MAC address of the phone.

3

Advanced Functions

Hold and resume

When a call is in progress, pressing the flash key "R" puts the call on hold, i.e. the speech is set to mute (neither party can hear the other).



Pressing the flash key again will resume the call. While a call is on hold, you can establish a second call by dialing the desired number.

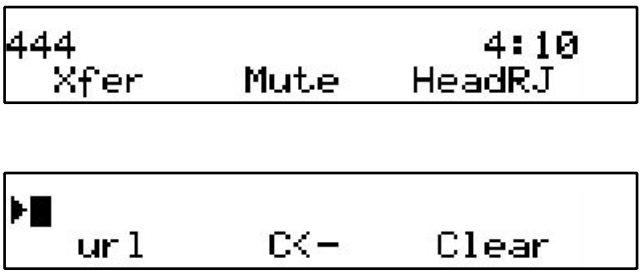
Key mapping:

ESC	The call being held is terminated.
R	Resumes the call being held.
Xfer	Transfers the call being held.
*,#,digits	Can be used to initiate another call.
	Handsfree mode on/off.

Transfer

Direct Transfer

After pressing the transfer key „Xfer" the connected party is put on hold, you are now able to dial a number.



As soon as you press ✓, the snom 200 will transfer the held party to that number.

◄	Moves the cursor to the left.
►	Moves the cursor to the right.
C	Deletes the character to the left of the cursor.
URL	Changes input mode to capital letters.
url	Changes input mode to small letters.
123	Changes input mode to numbers.
OK	The snom 200 transfers the call.
ESC	Aborts the transfer.

Consultation Transfer

During a call in progress, put the connected party on hold by pressing the R key.
While the call is on hold, you can establish a second call by dialing the desired number. When the second call is established, you can consult the second party, i.e. to announce the call. By pressing the transfer key "Xfer" or hook on the handset, you can then connect the two parties.

Conference

If the phone is connected with two calls, one on hold and one active, you can connect all three phones in a conference by pressing function key "Cnf.On".

By pressing function key Cnf.Off", the conference is disconnected again.

Call Diversion

All kinds of call diversions can be set, changed and deactivated in the submenu "Call Forwarding" and "Forwarding Options". The one that is currently active is marked with a preceding "*".

Diverting all calls

By selecting the option "Always" in submenu "Call Forwarding", every incoming call is diverted immediately to the number set without ringing the phone.

To disable this feature simply select "Off".

Divert when Busy

By activating the option "Busy" in submenu "Forwarding Options", every incoming call is diverted to the number set if another call is already in progress.

Divert when not answered

In sub-item "Time" of submenu "Call Forwarding", you can set the number of seconds after which every incoming unanswered call is diverted to the number you have also set up here.

Note: To activate immediate call divert, see above.

Call completion

The call completion functionality helps the user to establish calls successfully even if the other party is busy or not answering.

On busy

This is helpful if the party you are trying to reach is busy. If call completion support is enabled, the following window will appear:

By pressing "CC" key, call completion is activated and the phone waits for the other party return to idle. Pressing "Cancel" cancels the call completion attempt.

When the other party becomes idle, the following window appears:

By pressing OK key, the phone will dial the number again in order to establish a connection to the other party that was previously busy and is now idle again.

DTMF Tones

During a call, e.g. with a voicemail system, pressing the digits 0-9, * or # will generate and send DTMF tones to the other party.

Message Waiting Indication (MWI)

If another party tried to reach you and the mailbox recorded a message as you did not answer the call, the idle screen displays that a recorded message is waiting for you.

At the idle screen, the second softkey turns to show "MWI". In order to listen to the recorded messages, connect the mailbox by pressing the MWI key.

Conducting a Software Update

If your provider/administrator is offering you a new software version for your phone, an "SW" is displayed in the middle of the first line of the idle screen.

In this case, the menu item "SW Update" will show "Available".

Pressing F2 key reboots your phone after a few seconds. During boot-up, the phone asks you whether or not it should proceed with the bootloader and/or firmware update.

Additional PBX Features

If the phone is set up to use H.323 protocol, additional PBX features are available if they are enabled by the administrator.

Pickup

If someone else's phone is ringing and you want to pick up the call with your own phone, you need to press the key.

(This functionality works also with TEDAS Phoneware Server and Innovaphone ip400.)

Conference

If the phone is connected with two calls, one on hold and one active, you can connect all three phones in a conference by pressing function key "Cnf.On".

By pressing function key "Cnf.Off" the conference will be disconnected again.

(This functionality works, for example, with TEDAS Phoneware Server.)

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Key mapping:

Next	Scrolls to the next item.
Edit	Enters the edit mode for the selected entry.
Clear	Deletes current item.
OK / Off Hook	Dials the number of the selected entry.
ESC	Returns to the idle state.

Adding an entry

In order to add a new entry, go on to the list item <New item> and press "Edit".

Then enter the name and phone number and confirm each item by pressing OK.

Pressing ESC aborts the addition of a new entry.

Key mapping:

*	Changes input mode
C	Deletes the character to the left of the cursor.
◄	Moves the cursor to the left.
►	Moves the cursor to the right.
OK	Accepts the entry.
ESC	Cancels the entry.

Editing an entry

After pressing the key "Edit" on the entry to be modified, the name and phone number will be brought up in sequence. Confirm each item by pressing OK.

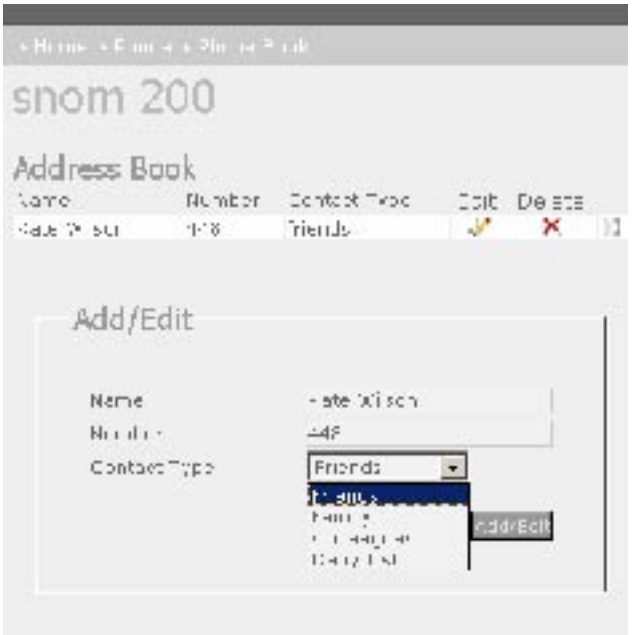
The title of the window indicates which input is expected. OK accepts the data and pressing Cancel aborts the editing.

Key mapping:

*	Changes input mode
C	Deletes the character to the left of the cursor.
◄	Moves the cursor to the left.
►	Moves the cursor to the right.
OK	Accepts the entry.
ESC	Aborts the editing process.

Editing of the phonebook can also be done via the webpage Phone /

Phonebook.



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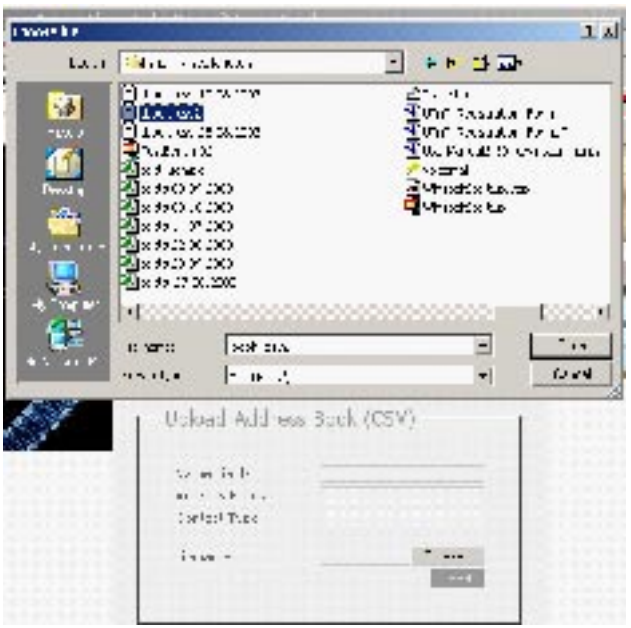
Export

To save the content from an already full phonebook, right-click onto the link at the bottom of the page Phone / Phonebook named “here” from “Click here to save the current address book.”

With “Save Target As…” can save the phone book content in a comma-separated file containing the current address book entries (CSV = Comma Separated Values).

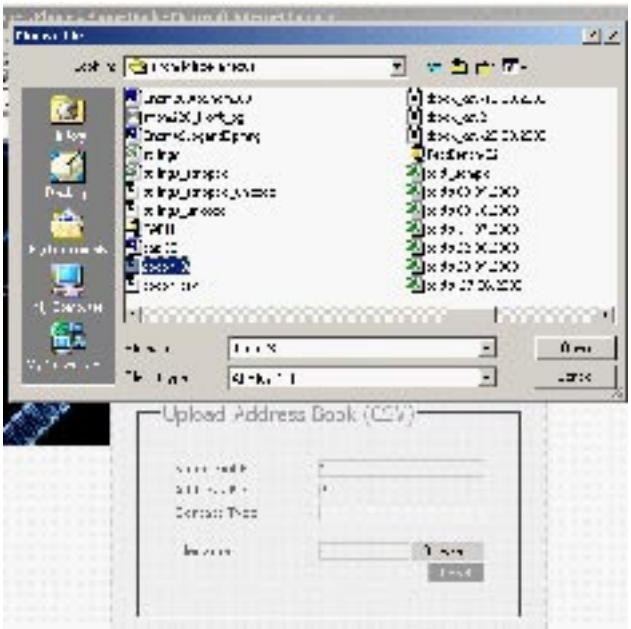
Import

To load an Address book from a file, click on the Browse button on the page Phone / Phonebook in the section entitled "Upload Address Book (CSV)". Select the pre-stored csv file from the storage medium and then press the ‚Load' button just below the edit box.



This will add the address book entries in the stored file to the address book of your snom 200. Name and Address fields refer to the column numbers in which these fields exist in the csv file to be attached. They are not required if the file has proper field headers.

If the file does not have proper field headers, remove the first line containing the header information if there is any (e.g. “Name”,”Phone”,”Content Type”), as this is not needed if you are specifying the Name and Address fields explicitly. Enter 1 in the Name field and 2 in the Address field, and press Load. This feature is especially helpful if you have a file that has not been generated by a snom phone.



It should not matter if some of the entries already exist in the phone book. They will not be duplicated if both Name and Number are the same. If the number field is the same but name is not, then the file entries will replace the old ones (just like editing the old entry to save a different Name).

Call Lists

The snom 200 maintains lists of missed, received and dialed calls that can be accessed by pressing the "call log" key from the idle state. Pressing "→" or "←" leads to the next or previous screen.

Key mapping:

►	Scrolls to the next call.
◄	Scrolls to the previous call.
Details	Shows details of this call.
Clear	Deletes the current entry.
OK / Off Hook	Dials the number of the current entry.
ESC	Returns to the idle state.

For example, after choosing the missed calls, the most recent missed call is displayed first.

After pressing "Details", the call details are displayed.

You can step through the Details with the ◄ key. Call details shown are To, From, Time and the number of times you missed a call from the same phone.

Key mapping:

Edit	You can use the current entry for your next call and possibly edit the number before calling it.
Save	Saves the current calling party to the phone book.
Clear	Deletes the current entry.
OK / Off Hook	Dials the number of the current entry.
ESC	Returns to the previous window.

Speed Dial

The snom 200 supports speed dial of up to 33 numbers. These are mapped onto the numbers 0-30, * and #.

Dialing

Speed dialing is initiated by simply typing in a number from 0-30, * or # respectively and confirming with the OK key. In this way, 33 speed dial numbers can be called up without having to look at the display.

Editing speed dial entries

The speed dial numbers can be conveniently set up with the built-in web interface page of your phone.

Deny List

The snom 200 gives you the option of putting numbers on a deny list to prevent you being disturbed.

Browsing

Via the submenu Phone / Phonebook you can reach the phonebook window, which also provides the information for the deny list.

The numbers to be denied are displayed here and marked with contact type "deny".

Adding a number

While you are being called you can press the deny list key "Deny All". This will not only deny the call but will also add the number to the deny list.

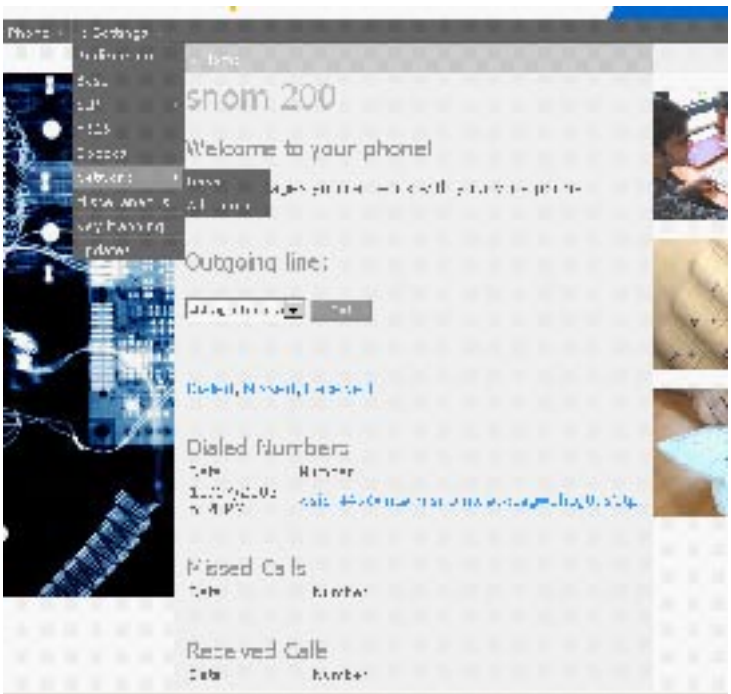
In addition, any number can be added to the deny list by adding a new entry via the phonebook webpage and marking it as "Deny List".

Removing a number

Removing a number from the deny list is possible via the phonebook webpage by clicking onto the small red crossed icon at the end of the line that you want to delete.

Settings via Web Browser

It is usually more convenient to use a web browser to configure the settings. The snom 200 has an integrated web server to configure its settings. If the phone is connected to a network that provides DHCP, it can be immediately accessed via the browser after boot-up. In case you do not want to use DHCP, you must specify the IP address, netmask, gateway, DNS domain and DNS server statically to ensure correct operation.



Web configuration

- Start your web browser (e.g. Netscape, IE).
- Enter the IP address of the phone as the URL (e.g. 192.168.0.100). If you do not know the IP address, please ask your network administrator or press F and have a look at your phone's submenu "Information" and select item IPAdr.

- You will find a selection menu at the top (Phone / Settings).
- Move the mouse pointer over the menu item settings.
- You should now see a drop-down menu with submenus appear.
- Just click on the desired submenu (e.g. Base) and the current settings of this submenu are displayed.

You can now modify and store the values by using the mouse and keyboard. To store the changes made, just click on the SAVE button, which you will find in the upper/lower section. Do NOT press SAVE if you want to discard the changes.

Options

The following options are available in user mode via web interface.

Redirection

You can have all incoming calls diverted to a specific number. The following options for redirection events are available:

- **Never**:

This deactivates all call diverts.

- **Always**:

All calls are diverted to the number specified in "Number Redirect".

- **When Busy**:

When a call is in progress, any other call made to that number is rejected and will get a busy indication. The phone can be set in such a way that the second caller is diverted to another number set in "Number Busy".

- **After Timeout**:

Calls are diverted after the timeout in seconds specified in "Timeout" to the number specified in "Number Redirect".

The following fields for diversion are also available:

Timeout

Specifies the timeout in seconds after which the call should be diverted.

Number redirect

Specifies the number to which the calls should be diverted.

Number busy

Specifies the number to which the calls should be diverted if the phone is busy.

Base

Language

Your phone is able to display all display texts in different languages.

Display method

Specifies the display of incoming and outgoing callers:

- **Full Contact**: Shows the complete URL
- **Name**: Just the name is displayed
- **Number**: Only the number is displayed

Number guessing

Here, the number guessing functionality can be activated or deactivated. Press the menu key in the idle state and select the submenu “Settings / Base / Number Guessing”.

Appendix

Standard Conformance

Name and address of manufacturer

snom technology AG

Pascalstraße 10B

10587 Berlin

The snom technology AG assures that the product

Type: VoIP Phone
Model: snom 200

conforms with the following standards

EMC standard 89/336/EWG incl. all appendices

Low voltage standard 73 / 23 / EWG

Safety Standards

EN 60950 1992 incl. all appendices

Electromagnetic Standards

EN 55022 / 9.98 Class B

EN 55024 / 9.98

EN 61000-3-2/1995+A1/1998+A2/1998+A14 /2000

EN 61000-3-3/1.95

Place, Date	Dr. Christian Stredicke
Berlin,12.Nov.2003	Vorstand (MD)

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snom technology AG welcomes your evaluation of this manual and any suggestions you may have. These help us to improve the quality and usefulness of our documentation.

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Manual Name: User Manual, snom 200

Version: V2.02 Date: 12 November, 2003

	Excellent	Good	Fair	Poor
How would you rate the manual overall?	☐	☐	☐	☐
Are the installation instructions effective?	☐	☐	☐	☐
Are the Configuration Instructions effective?	☐	☐	☐	☐
Is the manual properly organized?	☐	☐	☐	☐
Are the illustrations usefull and easy to understand?	☐	☐	☐	☐
Are the suggested and default values useful?	☐	☐	☐	☐
Is the index useful?	☐	☐	☐	☐

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How might we improve this manual?_____

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The SIP Experts

snom VoIP Phone snom 200
User Manual
12 Nov., 2003, Version V2.02
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